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ABSTRACT OF THE DISCLOSURE

09/416618

5 A print head and method that are capable of detecting  
a plurality of performance conditions such as a dry-fire,  
no-fire or clogged-nozzle condition. Pressure wave  
sensors within a print head are disclosed that are capable  
of detecting pressure waves generated by the firing of an  
ink expulsion mechanism. The characteristics of the  
10 pressure wave generated by the firing event (e.g.,  
magnitude and timing) are indicative of the operating  
condition within the head. Multiple sensor types are  
disclosed.

09/416618-101299